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0107

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,117

DATE: 01/17/2002

TIME: 17:44:39

Input Set : N:\Crf3\RULE60\09904117.raw

Output Set: N:\CRF3\01172002\I904117.raw

ENTERED

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1 <110> APPLICANT: MUIR, TOM W.
2   COLE, PHILIP A
3   FRIEDMAN, JEFFREY M.
4   SONDHI, DOLAN
5   SEVERINOV, KONSTANTINE
6 <120> TITLE OF INVENTION: METHODS OF LIGATING EXPRESSED PROTEINS
7 <130> FILE REFERENCE: 600-1-214CIPB
8 <140> CURRENT APPLICATION NUMBER: 09/904,117
9 <141> CURRENT FILING DATE: 2001-07-12
11 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/191,890
W--> 12 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-13
14 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/093,990
W--> 15 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1998-07-24
16 <160> NUMBER OF SEQ ID NOS: 11
17 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 162
20 <212> TYPE: PRT
21 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Description of Artificial Sequence: generated by
24   ligation of two proteins under certain conditions
25 <400> SEQUENCE: 1
26   Met Leu Phe Val Ala Leu Tyr Asp Phe Val Ala Ser Gly Asp Asn Thr
27       1           5           10           15
28   Leu Ser Ile Thr Lys Gly Glu Lys Leu Arg Val Leu Gly Tyr Asn His
29       20           25           30
30   Asn Gly Glu Trp Ala Glu Ala Gln Thr Lys Asn Gly Gln Gly Trp Val
31       35           40           45
32   Pro Ser Asn Tyr Ile Thr Pro Val Gly Cys Leu Glu Lys His Ser Trp
33       50           55           60
34   Tyr His Gly Pro Val Ser Arg Asn Ala Ala Glu Tyr Leu Leu Ser Ser
35       65           70           75           80
36   Gly Ile Asn Gly Ser Phe Leu Val Arg Glu Ser Glu Ser Ser Pro Gly
37       85           90           95
38   Gln Arg Ser Ile Ser Leu Arg Tyr Glu Gly Arg Val Tyr His Tyr Arg
39       100          105          110
40   Ile Asn Thr Ala Ser Asp Gly Lys Leu Tyr Val Ser Ser Glu Ser Arg
41       115          120          125
42   Phe Asn Thr Leu Ala Glu Leu Val His His His Ser Thr Val Ala Asp
43       130          135          140
44   Gly Leu Ile Thr Thr Leu His Tyr Pro Ala Pro Lys Arg Gly Ile His
45       145          150          155          160
46

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47      Arg Asp
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 12
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Description of Artificial Sequence: Model peptide
55      synthesized by solid phase peptide synthesis.
56 <220> FEATURE:
57 <221> NAME/KEY: SITE
58 <222> LOCATION: (11)
59 <223> OTHER INFORMATION: Xaa(position 11) is aminocaproate.
60 <220> FEATURE:
61 <223> OTHER INFORMATION: C-terminal K has a fluorescein moiety off the
62      E-NH2 group.
63 <400> SEQUENCE: 2
W--> 64      Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys
65          1              5              10
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 12
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Model peptide
73      synthesized by solid phase peptide synthesis.
74 <220> FEATURE:
75 <221> NAME/KEY: SITE
76 <222> LOCATION: (11)
77 <223> OTHER INFORMATION: Xaa(position 11) is aminocaproate.
78 <400> SEQUENCE: 3
W--> 79      Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys
80          1              5              10
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 8
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Model peptide
88      synthesized by solid phase peptide synthesis.
89 <220> FEATURE:
90 <223> OTHER INFORMATION: K has a fluorescein moiety off the E-NH2 group; C-
91      terminus is an amide group.
92 <400> SEQUENCE: 4
93      Cys Gly Arg Gly Arg Gly Arg Lys
94          1              5
96 <210> SEQ ID NO: 5
97 <211> LENGTH: 8
98 <212> TYPE: PRT
99 <213> ORGANISM: Unknown

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100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Unknown Organism: ligand
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103     Pro Val Pro Tyr Glu Asn Val Gly
104         1             5
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107 <211> LENGTH: 11
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence: Model peptide
112     synthesized by solid phase peptide synthesis.
113 <220> FEATURE:
114 <223> OTHER INFORMATION: C-terminus is an amide group.
115 <400> SEQUENCE: 6
116     Pro Pro Ala Tyr Pro Pro Pro Pro Val Pro Lys
117         1             5             10
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 42
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
125     oligonucleotide
126 <400> SEQUENCE: 7
127     ccggtcatcg aaggtcgttg cctggagaaa cattcctggt at
128                                     42
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 41
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
135     oligonucleotide
136 <400> SEQUENCE: 8
137     catgatacca ggaatgtttc tccaggcaac gaccttcgat g
138                                     41
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 5
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: motif within
145     linker region
146 <400> SEQUENCE: 9
147     Ile Glu Gly Arg Cys
148         1             5
150 <210> SEQ ID NO: 10
151 <211> LENGTH: 45
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence

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154 <220> FEATURE:  
155 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
156 oligonucleotide  
157 <400> SEQUENCE: 10  
158 ggatcccctg gtcatatgct ttttgtggca ctctatgatt ttgtg 45  
160 <210> SEQ ID NO: 11  
161 <211> LENGTH: 42  
162 <212> TYPE: DNA  
163 <213> ORGANISM: Artificial Sequence  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
166 oligonucleotide  
167 <400> SEQUENCE: 11  
168 atgtttctcc aggctgttaa cgggggtgat gtagttgctt gg 42

## VERIFICATION SUMMARY

DATE: 01/17/2002

PATENT APPLICATION: US/09/904,117

TIME: 17:44:40

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Output Set: N:\CRF3\01172002\I904117.raw

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L:15 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3